

LINEARlight FLEX Protect LOW POWER 500

LED modules for professional and industrial applications



Areas of application

- For indoor high-end application with dedicated equipment and accessories

Product family benefits

- Color consistency up to 2 SDCM on entire light strip thanks to Single-bin technology
- Color rendering options R_a : 80 and 90
- Service lifetime (L80/B10): up to 60,000 h
- LM79 and LM80 compliant
- Embedded constant current regulators
- No solder-joints on circuit board
- Type of protection: IP67 due to high performance silicon
- Flexible and cuttable LED strips
- Dimmable (with suitable PWM dimming methods)



Product family datasheet

Technical data

Electrical data

Product description	Nominal voltage	Type of current	Nominal wattage per meter	Rated wattage	Input voltage range	Reverse Voltage
LFP500 -G1-827-10	24.0 V	DC	3.9 W	39.00 W	23...25 V	25 V
LFP500 -G1-830-10	24.0 V	DC	3.9 W	39.00 W	23...25 V	25 V
LFP500 -G1-835-10	24.0 V	DC	3.9 W	39.00 W	23...25 V	25 V
LFP500 -G1-840-10	24.0 V	DC	3.9 W	39.00 W	23...25 V	25 V
LFP500 -G1-865-10	24.0 V	DC	3.9 W	39.00 W	23...25 V	25 V
LFP500 -G1-927-10	24.0 V	DC	3.9 W	39.00 W	23...25 V	25 V
LFP500 -G1-935-10	24.0 V	DC	3.9 W	39.00 W	23...25 V	25 V
LFP500 -G1-940-10	24.0 V	DC	3.9 W	39.00 W	23...25 V	25 V
LFP500 -G1-965-10	24.0 V	DC	3.9 W	39.00 W	23...25 V	25 V

Photometrical data

Product description	Light color LED	Color temperature	Color rendering index Ra	Luminous flux per meter	Total useful luminous flux	Standard deviation of color matching
LFP500 -G1-827-10	White	2690 K	>80	440 lm	4400 lm	≤3 sdc
LFP500 -G1-830-10	White	3095 K	>80	480 lm	4800 lm	≤3 sdc
LFP500 -G1-835-10	White	3460 K	>80	480 lm	4800 lm	≤3 sdc
LFP500 -G1-840-10	White	4015 K	>80	520 lm	5200 lm	≤3 sdc
LFP500 -G1-865-10	White	5775 K	>80	520 lm	5200 lm	≤3 sdc
LFP500 -G1-927-10	White	2690 K	≥90	360 lm	3600 lm	≤3 sdc
LFP500 -G1-935-10	White	3460 K	>90	400 lm	4000 lm	≤3 sdc
LFP500 -G1-940-10	White	4015 K	>90	400 lm	4000 lm	≤3 sdc
LFP500 -G1-965-10	White	5775 K	>90	440 lm	4400 lm	≤3 sdc

Product description	Light color (designation)	Luminous efficacy
LFP500 -G1-827-10	White	
LFP500 -G1-830-10	White	
LFP500 -G1-835-10	White	
LFP500 -G1-840-10	White	
LFP500 -G1-865-10	White	
LFP500 -G1-927-10	White	92 lm/W
LFP500 -G1-935-10	White	
LFP500 -G1-940-10	White	
LFP500 -G1-965-10	White	

Product family datasheet

Light technical data

Product description	LED pitch	Beam angle	Rated beam angle (half peak value)	Starting time	Warm-up time (60 %)
LFP500 -G1-827-10	14.29 mm	120 °	120.00 °	0.5 s	2.00 s
LFP500 -G1-830-10	14.29 mm	120 °	120.00 °	0.5 s	2.00 s
LFP500 -G1-835-10	14.29 mm	120 °	120.00 °	0.5 s	2.00 s
LFP500 -G1-840-10	14.29 mm	120 °	120.00 °	0.5 s	2.00 s
LFP500 -G1-865-10	14.29 mm	120 °	120.00 °	0.5 s	2.00 s
LFP500 -G1-927-10	14.29 mm	120 °	120.00 °	0.5 s	2.00 s
LFP500 -G1-935-10	14.29 mm	120 °	120.00 °	0.5 s	2.00 s
LFP500 -G1-940-10	14.29 mm	120 °	120.00 °	0.5 s	2.00 s
LFP500 -G1-965-10	14.29 mm	120 °	120.00 °	0.5 s	2.00 s

LED module information

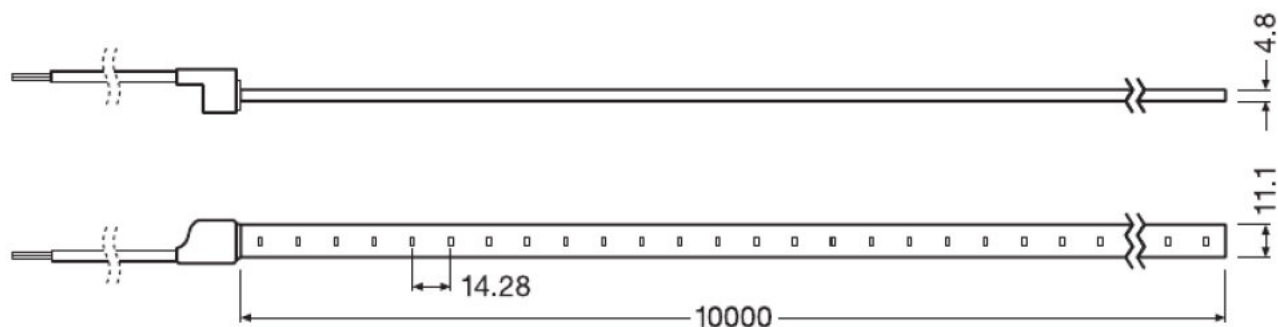
Product description	Number of LEDs per meter	Number of LEDs per smallest unit
LFP500 -G1-827-10	70	7
LFP500 -G1-830-10	70	7
LFP500 -G1-835-10	70	7
LFP500 -G1-840-10	70	7
LFP500 -G1-865-10	70	7
LFP500 -G1-927-10	70	7
LFP500 -G1-935-10	70	7
LFP500 -G1-940-10	70	7
LFP500 -G1-965-10	70	7

Dimensions & weight

Product description	Length	Length – smallest unit	Product weight
LFP500 -G1-827-10	10000 mm	100.0 mm	523.00 g
LFP500 -G1-830-10	10000 mm	100.0 mm	523.00 g
LFP500 -G1-835-10	10000 mm	100.0 mm	523.00 g
LFP500 -G1-840-10	10000 mm	100.0 mm	523.00 g
LFP500 -G1-865-10	10000 mm	100.0 mm	523.00 g
LFP500 -G1-927-10	10000 mm	100.0 mm	523.00 g
LFP500 -G1-935-10	10000 mm	100.0 mm	523.00 g
LFP500 -G1-940-10	10000 mm	100.0 mm	523.00 g
LFP500 -G1-965-10	10000 mm	100.0 mm	523.00 g

Product family datasheet

Product line drawing



LFP500 -G1-827-10, LFP500 -G1-830-10, LFP500 -G1-835-10, LFP500 -G1-840-10, LFP500 -G1-865-10, LFP500 -G1-927-10, LFP500 -G1-935-10, LFP500 -G1-940-10, LFP500 -G1-965-10

Colors & materials

Product description	Cover material	Body material
LFP500 -G1-827-10	Silicone	Silicone
LFP500 -G1-830-10	Silicone	Silicone
LFP500 -G1-835-10	Silicone	Silicone
LFP500 -G1-840-10	Silicone	Silicone
LFP500 -G1-865-10	Silicone	Silicone
LFP500 -G1-927-10	Silicone	Silicone
LFP500 -G1-935-10	Silicone	Silicone
LFP500 -G1-940-10	Silicone	Silicone
LFP500 -G1-965-10	Silicone	Silicone

Temperatures & operating conditions

Product description	Performance temp. acc. to IEC 62717	Temperature range in operation at Tc point	Ambient temperature range
LFP500 -G1-827-10	35 °C	-30...70 °C ¹⁾	-30...+50 °C ²⁾
LFP500 -G1-830-10	35 °C	-30...70 °C ¹⁾	-30...+50 °C ²⁾
LFP500 -G1-835-10	35 °C	-30...70 °C ¹⁾	-30...+50 °C ²⁾
LFP500 -G1-840-10	35 °C	-30...70 °C ¹⁾	-30...+50 °C ²⁾
LFP500 -G1-865-10	35 °C	-30...70 °C ¹⁾	-30...+50 °C ²⁾
LFP500 -G1-927-10	40 °C	-30...70 °C ¹⁾	-30...+50 °C ²⁾
LFP500 -G1-935-10	35 °C	-30...70 °C ¹⁾	-30...+50 °C ²⁾
LFP500 -G1-940-10	35 °C	-30...70 °C ¹⁾	-30...+50 °C ²⁾
LFP500 -G1-965-10	35 °C	-30...70 °C ¹⁾	-30...+50 °C ²⁾

¹⁾ Exceeding the maximum ratings will reduce expected life time or destroy the LED strip.

²⁾ Rated ambient temp. 25°C/Providing that temperature at Tc point is below max value during operation/Temperature ramping for environmental testing acc. to IEC 62717, 1K/min

Lifespan

Product description	Rated lamp life time	Nominal lamp life time	Lumen main. fact. at end of nom. life time	Number of switching cycles
LFP500 -G1-827-10	60000 h ¹⁾	60000 h	0.70	15000
LFP500 -G1-830-10	60000 h ¹⁾	60000 h	0.70	15000
LFP500 -G1-835-10	60000 h ¹⁾	60000 h	0.70	15000
LFP500 -G1-840-10	60000 h ¹⁾	60000 h	0.70	15000
LFP500 -G1-865-10	60000 h ¹⁾	60000 h	0.70	15000
LFP500 -G1-927-10	60000 h ¹⁾	60000 h	0.70	15000
LFP500 -G1-935-10	60000 h ¹⁾	60000 h	0.70	15000
LFP500 -G1-940-10	60000 h ¹⁾	60000 h	0.70	15000
LFP500 -G1-965-10	60000 h ¹⁾	60000 h	0.70	15000

¹⁾ L70/B50 at T_c 40 °C

Product family datasheet

Capabilities

Product description	Dimmable	Lowest bending radius	Self-adhesive
LFP500 -G1-827-10	Yes	50 mm	Yes
LFP500 -G1-830-10	Yes	50 mm	Yes
LFP500 -G1-835-10	Yes	50 mm	Yes
LFP500 -G1-840-10	Yes	50 mm	Yes
LFP500 -G1-865-10	Yes	50 mm	Yes
LFP500 -G1-927-10	Yes	50 mm	Yes
LFP500 -G1-935-10	Yes	50 mm	Yes
LFP500 -G1-940-10	Yes	50 mm	Yes
LFP500 -G1-965-10	Yes	50 mm	Yes

Product description	With connection set	With end piece
LFP500 -G1-827-10	Yes	Yes
LFP500 -G1-830-10	Yes	Yes
LFP500 -G1-835-10	Yes	Yes
LFP500 -G1-840-10	Yes	Yes
LFP500 -G1-865-10	Yes	Yes
LFP500 -G1-927-10	Yes	Yes
LFP500 -G1-935-10	Yes	Yes
LFP500 -G1-940-10	Yes	Yes
LFP500 -G1-965-10	Yes	Yes

Certificates & standards

Product description	Energy efficiency class	Energy consumption	Standards
LFP500 -G1-827-10	A++	48 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750
LFP500 -G1-830-10	A++	48 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750
LFP500 -G1-835-10	A++	48 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750
LFP500 -G1-840-10	A++	48 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750
LFP500 -G1-865-10	A++	48 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750
LFP500 -G1-927-10	A++	43 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750
LFP500 -G1-935-10	A++	48 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750
LFP500 -G1-940-10	A++	48 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750
LFP500 -G1-965-10	A++	48 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750

Product family datasheet

Product description	Type of protection
LFP500 -G1-827-10	IP67
LFP500 -G1-830-10	IP67
LFP500 -G1-835-10	IP67
LFP500 -G1-840-10	IP67
LFP500 -G1-865-10	IP67
LFP500 -G1-927-10	IP67
LFP500 -G1-935-10	IP67
LFP500 -G1-940-10	IP67
LFP500 -G1-965-10	IP67

Logistical data

Product description	Temperature range at storage
LFP500 -G1-827-10	-40...85 °C
LFP500 -G1-830-10	-40...85 °C
LFP500 -G1-835-10	-40...85 °C
LFP500 -G1-840-10	-40...85 °C
LFP500 -G1-865-10	-40...85 °C
LFP500 -G1-927-10	-40...85 °C
LFP500 -G1-935-10	-40...85 °C
LFP500 -G1-940-10	-40...85 °C
LFP500 -G1-965-10	-40...85 °C

Equipment / Accessories

- Flexessories: a complete set of aluminum channels with diffusers and lenses
- Connectors: quick-and-easy toolless installation with SLIMCONNECTsystem G2
- Drivers and dimmers: wide selection of OPTOTRONIC 24 V DALI, DMX and BLE
- Check for more detailed information the specification sheets in the download section

Application advice






















For more detailed application information and graphics please see product datasheet.

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

Product family datasheet

File	
	Product Datasheet LINEARlight FLEX Protect Low Power LFP500 Specification Sheet (EN)
	Brochures Light is freedom of design (EN)
	Certificates VDE-ENEC Certificate
	Certificates UL Certificate-20180523-E346592
	Declarations of conformity EU declaration of conformity 3657643
	Declarations of conformity Manufacturers Declaration of Conformity 3657733
	Eulumdat Eulumdat LFP500-G1-827-10
	IES data IES data LFP500-G1-827-10
	Eulumdat Eulumdat LFP500-G1-830-10
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Product family datasheet



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Eulumdat LFP500-G1-965-10



IES data
IES data LFP500-G1-965-10

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899575400	LFP500 -G1-827-10	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8402.00 g
4052899575424	LFP500 -G1-830-10	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8402.00 g
4052899575448	LFP500 -G1-835-10	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8402.00 g
4052899575462	LFP500 -G1-840-10	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8402.00 g
4052899575486	LFP500 -G1-865-10	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8402.00 g
4052899595217	LFP500 -G1-927-10	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8402.00 g
4052899575523	LFP500 -G1-935-10	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8402.00 g
4052899575547	LFP500 -G1-940-10	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8402.00 g
4052899575561	LFP500 -G1-965-10	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8402.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

References / Links

System configurator tool is available online at <https://flex.osram.info/en/flex-configurator>

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.